

LEE
Appl. No. Unknown
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AMENDMENTS TO THE ABSTRACT:

Please insert the Abstract of the Disclosure which is on the attached sheet.

ABSTRACT

Provided is a flexible transmission shaft. The flexible transmission shaft for transmitting a torque from a drive source to a driven load, the flexible transmission shaft includes a pipe-shaped shaft, which has one or more slits extending in a circumferential direction of the shaft, each of the slits having two opposed surfaces that are isolated from each other by the slit, a plurality of protrusions protruding from one of the opposed surfaces, and a plurality of recessions formed in the other one of the opposed surfaces to receive and support the protrusions therein. Since the flexible transmission shaft can be bent or curved within a given angle, it can be substituted for a flexible coupling, a universal joint, or a bevel gear. In addition, the flexible transmission shaft does not require additional mechanical elements to be connected to a shaft, and has a simple structure, light weight, and high torque transmission capability.